

PARAMETERS			
similarity matrix	PAM-150	K-tuplre	1
threshold level of sim.	16%		
isimatch penalty	;		
gap penalty	5.00	Joining penalty	2.0
gap size penalty	0.05	Window size	238
utofr score	1		
randomization group	0		
SEARCH STATISTICS			
scores:	Mean	Median	Standard Deviation
	237	238	2.58
times:	CPU		Total Elapsed
	00:00:00.50		00:03:00.56
number of residues:		714	
number of sequences searched:		5	
number of scores above cutoff:		3	
the scores below are sorted by initial score.			
significance is calculated based on initial score.			
100% identical sequence to the query sequence was found:			
sequence Name	Description	Init. Opt. Score	Length

> O <
O | 0 IntelliGenetics
> O <

FastDB - Fast Pairwise Comparison of Sequences
Release 5.4

Results file us-09-967-301-3.res made by bchryen on Wed 16 Jul 103 15:59:33 PCT.

Query sequence being compared:US-09-967-301-3 (1-238);
Number of sequences searched: 3
Number of scores above cutoff: 3

Results of the initial comparison of US-09-967-301-3 (1-238) with:

File : US09967301.res
100 -
N -
U 50 -
M -
H -
E -
R -
R -
O -
F 10 -
E -
S -
E 5 -
Q -
U -
E -
N -
N -
C -
E -
S 0 -
SCORE 0 26 53 79 106 132 159 185 212 238
STDEV 237 238 238 238 238 238 238 238 238

PARAMETERS

Similarity matrix PAM150 K-tuple 1
Threshold level of sim. 168
Mismatch penalty 1
Gap penalty 5.00
Gap size penalty 0.05
Cutoff score 1
Randomization group 0

SEARCH STATISTICS

Scores: Mean 237 Median 238 Standard Deviation 0.58
Times: CPU 00:00:00.00
Number of sequences searched: 3
Number of scores above cutoff: 3

SEQUENCE

Sequence Name Description Length Score Score Init. Opt. Sig. Frame
1. US-09-967-301-3 Sequence 3, Application US 238 238 238 238 1.73 0
2. US-09-967-301-4 Sequence 4, Application US 238 237 237 0.00 0
3. US-09-967-301-2 Sequence 2, Application US 238 237 237 0.00 0
4. US-09-967-301-3 (1-238) Sequence 3, Application US/09967301
Initial Score = 238 Optimized Score = 238 Significance = 1.73
Residue Identity = 100% Matches = 238 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0
X 10 20 30 40 50 60 70
MSKGEEELFTGVVPILVEDGDNHGFVSSEGEGDATYCKLTKFCITGKLKPVPWPT:VTTLSYGVQCFSS
X 10 20 30 40 50 60 70
MSKGEEELFTGVVPILVEDGDNHGFVSSEGEGDATYCKLTKFCITGKLKPVPWPT:VTTLSYGVQCFSS
X 10 20 30 40 50 60 70
RYPDHMKRHDFFKSAMPEGYQERTIFFKDDGNYKTRAEVKFEGDTLVNRIELKGIDFEDGNILGHKLEYN
RYPDHMKRHDFFKSAMPEGYQERTIFFKDDGNYKTRAEVKFEGDTLVNRIELKGIDFEDGNILGHKLEYN
90 90 100 110 120 130 140
150 160 170 180 190 200 210
YNSHNYVIMADQKNGIKVNFKIRHNTEDGVQLADHYQONTPIGDGPVLLPDNHYLSTOSALSKDNEKRD
YNSHNYVIMADQKNGIKVNFKIRHNTEDGVQLADHYQONTPIGDGPVLLPDNHYLSTOSALSKDNEKRD
150 160 170 180 190 200 210
220 230 X
HMVLIGFVTAAGITHGMDELYK
HMVLIGFVTAAGITHGMDELYK
220 230 X
2. US-09-967-301-3 (1-238); US-09-967-301-4 Sequence 4, Application US/09967301
Initial Score = 237 Optimized Score = 237 Significance = 0.00
Residue Identity = 99% Matches = 236 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0
X 10 20 30 40 50 60 70
MSKGEEELFTGVVPILVEDGDNHGFVSSEGEGDATYCKLTKFCITGKLKPVPWPT:VTTLSYGVQCFSS
X 10 20 30 40 50 60 70
MSKGEEELFTGVVPILVEDGDNHGFVSSEGEGDATYCKLTKFCITGKLKPVPWPT:VTTLSYGVQCFSS
X 10 20 30 40 50 60 70
RYPDHMKRHDFFKSAMPEGYQERTIFFKDDGNYKTRAEVKFEGDTLVNRIELKGIDFEDGNILGHKLEYN
RYPDHMKRHDFFKSAMPEGYQERTIFFKDDGNYKTRAEVKFEGDTLVNRIELKGIDFEDGNILGHKLEYN
80 90 100 110 120 130 140
150 160 170 180 190 200 210
YNSHNYVIMADQKNGIKVNFKIRHNTEDGVQLADHYQONTPIGDGPVLLPDNHYLSTOSALSKDNEKRD
YNSHNYVIMADQKNGIKVNFKIRHNTEDGVQLADHYQONTPIGDGPVLLPDNHYLSTOSALSKDNEKRD
150 160 170 180 190 200 210
220 230 X
HMVLIGFVTAAGITHGMDELYK
HMVLIGFVTAAGITHGMDELYK
HMVLIGFVTAAGITHGMDELYK

The list of other best scores is:

Sequence Name Description Length Score Score Init. Opt. Sig. Frame
1. US-09-967-301-3 Sequence 3, Application US 238 238 238 238 1.73 0
2. US-09-967-301-4 Sequence 4, Application US 238 237 237 0.00 0
3. US-09-967-301-2 Sequence 2, Application US 238 237 237 0.00 0
4. US-09-967-301-3 (1-238) Sequence 3, Application US/09967301
Initial Score = 238 Optimized Score = 238 Significance = 1.73
Residue Identity = 100% Matches = 238 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0
X 10 20 30 40 50 60 70
MSKGEEELFTGVVPILVEDGDNHGFVSSEGEGDATYCKLTKFCITGKLKPVPWPT:VTTLSYGVQCFSS
X 10 20 30 40 50 60 70
MSKGEEELFTGVVPILVEDGDNHGFVSSEGEGDATYCKLTKFCITGKLKPVPWPT:VTTLSYGVQCFSS
X 10 20 30 40 50 60 70
RYPDHMKRHDFFKSAMPEGYQERTIFFKDDGNYKTRAEVKFEGDTLVNRIELKGIDFEDGNILGHKLEYN
RYPDHMKRHDFFKSAMPEGYQERTIFFKDDGNYKTRAEVKFEGDTLVNRIELKGIDFEDGNILGHKLEYN
90 90 100 110 120 130 140
150 160 170 180 190 200 210
YNSHNYVIMADQKNGIKVNFKIRHNTEDGVQLADHYQONTPIGDGPVLLPDNHYLSTOSALSKDNEKRD
YNSHNYVIMADQKNGIKVNFKIRHNTEDGVQLADHYQONTPIGDGPVLLPDNHYLSTOSALSKDNEKRD
150 160 170 180 190 200 210
220 230 X
HMVLIGFVTAAGITHGMDELYK
HMVLIGFVTAAGITHGMDELYK
HMVLIGFVTAAGITHGMDELYK

A 100% identical sequence to the query sequence was found:

Sequence Name Description Length Score Score Init. Opt. Sig. Frame
1. US-09-967-301-3 Sequence 3, Application US 238 238 238 238 1.73 0
2. US-09-967-301-4 Sequence 4, Application US 238 237 237 0.00 0
3. US-09-967-301-2 Sequence 2, Application US 238 237 237 0.00 0
4. US-09-967-301-3 (1-238) Sequence 3, Application US/09967301
Initial Score = 238 Optimized Score = 238 Significance = 1.73
Residue Identity = 100% Matches = 238 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0
X 10 20 30 40 50 60 70
MSKGEEELFTGVVPILVEDGDNHGFVSSEGEGDATYCKLTKFCITGKLKPVPWPT:VTTLSYGVQCFSS
X 10 20 30 40 50 60 70
MSKGEEELFTGVVPILVEDGDNHGFVSSEGEGDATYCKLTKFCITGKLKPVPWPT:VTTLSYGVQCFSS
X 10 20 30 40 50 60 70
RYPDHMKRHDFFKSAMPEGYQERTIFFKDDGNYKTRAEVKFEGDTLVNRIELKGIDFEDGNILGHKLEYN
RYPDHMKRHDFFKSAMPEGYQERTIFFKDDGNYKTRAEVKFEGDTLVNRIELKGIDFEDGNILGHKLEYN
90 90 100 110 120 130 140
150 160 170 180 190 200 210
YNSHNYVIMADQKNGIKVNFKIRHNTEDGVQLADHYQONTPIGDGPVLLPDNHYLSTOSALSKDNEKRD
YNSHNYVIMADQKNGIKVNFKIRHNTEDGVQLADHYQONTPIGDGPVLLPDNHYLSTOSALSKDNEKRD
150 160 170 180 190 200 210
220 230 X
HMVLIGFVTAAGITHGMDELYK
HMVLIGFVTAAGITHGMDELYK
HMVLIGFVTAAGITHGMDELYK

The scores below are sorted by initial score.
Significance is calculated based on initial score.

220 X

230

X

3. US-09-967-301-3 (1-238);
US-09-967-301-2 Sequence 2, Application US/0967301

Initial Score = 237 Optimized Score = 237 Significance = 0.00

Residue Identity = 98% Matches = 235 Mismatches = 3

Gaps = 0 Conservative Substitutions = 0

X	10	20	30	40	50	60	70
	RSKGEELFTGVPILVLDGDPVNGHKFSVSGEGEGDATYKQLTLKPICTGKLPVPWPTLVTLTSYGVQFS						
	RSKGEELFTGVPILVLDGDPVNGHKFSVSGEGEGDATYKQLTLKPICTGKLPVPWPTLVTLTSYGVQFS						
X	10	20	30	40	50	60	70

80	90	100	110	120	130	140
	RYPDHMKRHDFFKSAMPEGYQERTIFFKDDGNYKTRAEVKFEGSYLVRNIEKQIDFKEGNILGHKLEYN					
	RYPDHMKRHDFFKSAMPEGYQERTIFFKDDGNYKTRAEVKFEGSYLVRNIEKQIDFKEGNILGHKLEYN					
80	90	100	110	120	130	140

150	160	170	180	190	200	210
	VNSHNVYIMADQKNGIKVNFKIRHNIEDGCVQIADHYQONTPIGDGPVLLPUNVYLSTOSAISKDPNFKP					
	VNSHNVYIMADQKNGIKVNFKIRHNIEDGCVQIADHYQONTPIGDGPVLLPUNVYLSTOSAISKDPNFKP					
150	160	170	180	190	200	210

220	230	X				
	HRVLLGTVTAAGITHGMDELX	X				
	HRVLLGTVTAAGITHGMDELX	X				
220	230	X				